



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 08/25/2009

BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER

PARRY, CHRISTOPHER L

ART UNIT

PAPER NUMBER

2421

DATE MAILED: 08/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/020,162

12/18/2001

Ji Sim Suh

0465-0885P-SP

9262

TITLE OF INVENTION: METHOD FOR IMPLEMENTING HELP FUNCTION IN DIGITAL TV RECEIVER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/25/2009

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

2292 7590 08/25/2009

**BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747**

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/020,162 12/18/2001 Ji Sim Suh 0465-0885P-SP 9262

**TITLE OF INVENTION: METHOD FOR IMPLEMENTING HELP FUNCTION IN DIGITAL TV RECEIVER**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/25/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
PARRY, CHRISTOPHER L	2421	725-043000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,162	12/18/2001	Ji Sim Suh	0465-0885P-SP	9262
2292	7590	08/25/2009	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			PARRY, CHRISTOPHER L	
			ART UNIT	PAPER NUMBER
			2421	
DATE MAILED: 08/25/2009				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1144 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1144 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/020,162	SUH, JI SIM	
	<b>Examiner</b>	<b>Art Unit</b>	
	CHRIS PARRY	2421	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 7/10/09.
2. ☒ The allowed claim(s) is/are 1,3-17,19 and 38-42.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|---|

/John W. Miller/  
Supervisory Patent Examiner, Art Unit 2421

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael E. Monaco on July 23, 2009.

The application has been amended as follows:

Claims 1, 8, and 38-42 have been amended.

Claim 18 has been cancelled.

Claim 1 has been amended as follows:

1. A method for implementing a help function in a digital television receiver with a plurality of buttons, including a help button and cursor buttons, provided on the digital television receiver or on a remote controller, the method comprising the steps of:

displaying main help items including titles of external elements in the digital television receiver on a first area of a screen when a user pushes the help button;

indicating any one of the titles of the external elements with a cursor as the user manipulates the cursor buttons, and displaying a figure of the external element indicated by the cursor on a second area of the screen; and

displaying on a third area of the screen a help description with respect to one of plural parts of the figure indicated by the cursor on the second area of the screen without a separate key signal,

wherein the first, second and third areas are simultaneously displayed on the screen, ~~and~~

wherein the help description of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Claim 8 has been amended as follows:

8. The method of claim 1, further comprising the steps of:

displaying OSD menu items including an help item on the screen when the user pushes an the OSD button; and

displaying main help items including titles of the external elements in the digital television receiver on the first area when the cursor indicates the help item among the OSD menu items as the user manipulates the cursor buttons.

Claim 18 has been **CANCELLED**.

Claim 38 has been amended as follows:

38. A digital television, comprising:

Art Unit: 2421

a display screen;

a controller operatively connected to the display screen, the controller configured to

control the display screen to display main help items including titles of external elements in the digital television ~~receiver~~ on a first area of the display screen when a user pushes a help button on a remote device or on the digital television;

control the display screen to indicate any one of the titles of the external elements with a cursor as the user manipulates cursor buttons on the remote device or on the digital television, and displaying a figure of the external element indicated by the cursor on a second area of the display screen; and

control the display screen to display on a third area of the display screen a help description with respect to one part of the figure indicated by the cursor on the second area of the display screen without a separate key signal,

wherein the first, second and third areas are simultaneously displayed on the display screen, and

wherein the help description of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Claim 39 has been as follows:

39. A method for implementing a help function in a digital television receiver with a remote controller, the method comprising the steps of:

displaying main help items including titles of external elements in the digital television receiver on a first area of a screen on a user demand;

indicating any one of the titles of the external elements with a cursor by a user, and displaying a figure of the external element indicated by the cursor on a second area of the screen; and

displaying on a third area of the screen information with respect to one part of the figure indicated by the cursor on the second area of the screen,

wherein the first, second and third areas are simultaneously displayed on the screen, ~~and~~

wherein the information of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Claim 40 has been amended as follows:

40. A method for implementing a help function in a digital television receiver with a remote controller, the method comprising the steps of:

displaying main help items including titles of external elements in the digital television receiver on a first area of a screen on a user demand;



indicating any one of the titles of the external elements with a cursor by a user, and displaying a figure of the external element indicated by the cursor on a second area of the screen; and

displaying on a third area of the screen information with respect to one part of the figure indicated by the cursor on the second area of the screen,

wherein the first, second and third areas are simultaneously displayed on the screen, ~~and~~

wherein the information of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Claim 41 has been amended as follows:

41. A digital television, comprising:

a display screen;

a controller operatively connected to the display screen, the controller configured to

control the display screen to display main help items including titles of external elements in the digital television ~~receiver~~ on a first area of the display screen on a user demand;

control the display screen to indicate any one of the titles of the external elements with a cursor by a user, and display a figure of the external element indicated by the cursor on a second area of the display screen; and

control the display screen to display on a third area of the display screen information with respect to one part of the figure indicated by the cursor on the second area of the display screen,

wherein the first, second and third areas are simultaneously displayed on the display screen, and

wherein the information of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Claim 42 has been amended as follows:

42. A digital television, comprising:

a display screen;

a controller operatively connected to the display screen, the controller configured to

control the display screen to display main help items including titles of external elements in the digital television receiver on a first area of the display screen on a user demand;

control the display screen to indicate any one of the titles of the external elements with a cursor by a user, and display a figure of the external element indicated by the cursor on a second area of the display screen; and

control the display screen to display on a third area of the display screen information with respect to one part of the figure indicated by the cursor on the second area of the display screen,

wherein the first, second and third areas are simultaneously displayed on the display screen, ~~and~~

wherein the information of the third area is removed from the screen when the cursor indicates another part of the figure, and

wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

2. The following is an examiner's statement of reasons for allowance:

The art of record either alone or in combination fails to teach, disclose, or suggest the invention of claims 1, and 38-42 and in particular wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide in combination with other elements recited in the claims.

As to the prior art of record, Yoshida discloses a method for implementing a help function by displaying main help items in the first area 51 as shown in figure 4, such as Picture, Audio, Set-Up, and Remote Control, however Yoshida fails to discloses wherein

Art Unit: 2421

the main help items in the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide.

Further, there is no motivation to combine the prior art of record to disclose, teach, or suggest the invention of claims 1, and 38-42 and in particular wherein the main help items displayed on the first area include a remote key, a program remote, a front panel, a rear panel, a hook up, a menu, and a guide in combination with other elements recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Information Disclosure Statement***

3. The information disclosure statement filed 23 September 2002 lists NPL reference:

<http://www.brown.edu/Facilities/CIS/Communications/catv/catvtrubanswrs.html>,

however, the IDS fails to provide a date for the reference and thus the reference has not been considered by the examiner. The date must be provided in accordance with 37CFR 1.98(b).

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art references disclose systems and methods for providing contextual help to a user within a graphical user interface on a television.

USPN 7,043,691 B1 to Kwon et al.

USPN 6,879,350 B2 to Kwon et al.

USPN 6,412,110 B1 to Schein et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRIS PARRY whose telephone number is (571) 272-8328. The examiner can normally be reached on Monday through Friday, 8:00 AM EST to 4:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN MILLER can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2421

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John W. Miller/  
Supervisory Patent Examiner, Art Unit 2421

CHRIS PARRY  
Examiner  
Art Unit 2421

/C. P./  
Examiner, Art Unit 2421